What is Claimed is:

- 1. A sensor for a bearing, comprising:
- a sensor being incorporated into the bearing or its surroundings, wherein a sensor includes voltage means operable to decrease an output voltage of the sensor in conjunction with an increase of temperature by the measured sensor.
- The sensor according to claim 1, wherein one or more fixed resistors is connected to the sensor.
- 3. The sensor according to claim 2, wherein the sensor is constructed by a thermistor, and wherein the fixed resistor is connected in parallel with the sensor.
- 4. The sensor according to claim 3, wherein the thermistor is constructed by a NTC thermistor having a negative temperature characteristic.
- 5. The sensor according to claim 3, wherein the thermistor is constructed by a PTC thermistor and a silicon thermistor, and wherein the PTC thermistor and the silicon thermistor have a positive temperature characteristic.
 - 6. A bearing apparatus, comprising:a sensor according to claim 1.
 - 7. The bearing apparatus according to claim 6, further comprising: a temperature detection circuit; and
 - a cable for connecting the sensor and the temperature detection circuit.
- 8. The bearing apparatus according to claim 7, wherein the temperature detection circuit has a resistor for converting an output of the sensor into a voltage.

- 9. An abnormality determining apparatus for an axle bearing, comprising: a bearing apparatus according to claim 6.
- 10. The bearing apparatus according to claim 6, further comprising:
 - a rotation speed sensor; and
 - a vibration sensor.
- 11. A bearing apparatus, comprising
 - a sensor according to claim 2.
- 12. The bearing apparatus according to claim 11, further comprising:
 - a temperature detection circuit; and
 - a cable for connecting the sensor and the temperature detection circuit.
- 13. The bearing apparatus according to claim 12, wherein

the temperature detection circuit has a resistor for converting an output of the sensor into a voltage.

- 14. An abnormality determining apparatus for an axle bearing, comprising:
 - a bearing apparatus according to claim 11.
- 15. The bearing apparatus according to claim 11, further comprising:
 - a rotation speed sensor; and
 - a vibration sensor.
- 16. A bearing apparatus, comprising:
 - a sensor according to claim 3.
- 17. The bearing apparatus according to claim 16, further comprising:
 - a temperature detection circuit; and
 - a cable for connecting the sensor and the temperature detection circuit.

- 18. The bearing apparatus according to claim 17, wherein the temperature detection circuit has a resistor for converting an output of the sensor into a voltage.
- 19. An abnormality determining apparatus for an axle bearing, comprising: a bearing apparatus with the sensor according to claim 16.
- 20. The bearing apparatus according to claim 16, further comprising:
 a rotation speed sensor; and
 a vibration sensor.